

TECHNICAL DATA

Standards

Material : correspond to Stellite 1

DIN EN 14700	T Z Ni1
DIN 8555	MF 22-60-CGTZ

General Properties / Field of Applications

DSI M NiCrMo1/58F is a Nickel-based hard facing alloyed Laser Welding Cored Wire with 2% Molybdenum for an enhanced sulphidation protection at elevated temperatures. The essential characteristic correspond to the Cobalt-based alloys, especially the hardness, corrosion resistance, pitting (inter granular corrosion), heat resistance, wear resistance and thermal shock constancy. Applications are found in the chemical industry, nuclear technology, engine parts e.g. piston crowns.

Mechanical Properties

Tensile strength R _m	[MPa] / [N/mm ²]	500
Max. operation temperature	[°C]	600
Hardness	[HRC]	57 - 61

Chemical Composition (Standard Values in %)

Ni	C	Cr	Si	B	Fe	Mo
Base	0.75	20.0	4.7	3.2	<5.0	2.0

Compatible Materials (Samples)

Piston Crowns and other (marine) engine parts, nuclear technology.
Chemical Plants Components, Oil and Gas, Petrochemical.

Packaging and available Sizes*

Spool : SH 253 / BS 300	Ø mm	1.2 / 1.6
Rod : 500 / 1000 mm	Ø mm	1.2 / 1.6

* Other dimensions available on request

wires@dsilaser.com